

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number  
**WO 2005/098333 A1**

(51) International Patent Classification<sup>7</sup>: F27D 1/16, B28C 7/16, B05B 7/14

(21) International Application Number: PCT/AU2005/000470

(22) International Filing Date: 31 March 2005 (31.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 2004901815 5 April 2004 (05.04.2004) AU

(71) Applicant (for all designated States except US): SHINAGAWA REFRactories AUSTRALASIA PTY LTD [AU/AU]; 23 Glastonbury Avenue, Unanderra, New South Wales 2526 (AU).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MCKEW, Ronald, George [AU/AU]; 143 Washpool Road, Booral, New South Wales 2425 (AU).

(74) Agents: BORG, Keith, Joseph et al.; Halford & Co, 1 Market Street, Sydney, New South Wales 2000 (AU).

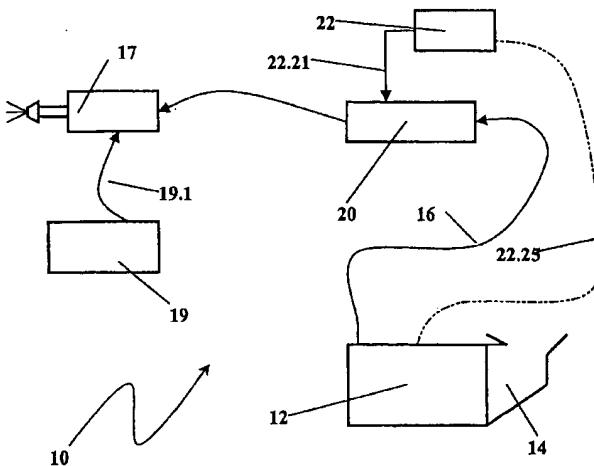
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:  
— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SLURRY INSTALLATION METHOD AND APPARATUS



**WO 2005/098333 A1**

(57) Abstract: The present invention provides a slurry spraying or installation system (10) including a gun means (12), a spray nozzle (17) and a conduit (16) connecting said gun means (12) to said spray nozzle (17), said gun means (12) including a pump means to move dry particulate towards said nozzle along said conduit (16), wherein between said gun means (12) and said nozzle (17) is a mixing device (20) which receives said dry particulate and mixes same with liquid under a greater pressure than the pressure that said dry particulate is under, so as to form a liquid and dry particulate mixture; said mixture being fed to said nozzle (17) for dispensing to a target.